

# THE TECH

VOL. XXVII. No. 51

BOSTON, MASS., FRIDAY, FEBRUARY 28, 1908

PRICE THREE CENTS



Photo by C. J. Brown 1909

## FOURTH-YEAR CLASS IN ARCHITECTURE.

ACK ROW: (Left to Right) F. W. Sharman, H. F. Kuehne, W. F. Dolke, J. McGinniss, R. J. Batchelder, M. P. Meade, H. S. Hazen, C. A. Brown, E. M. Price, H. D. Chandler.  
ENTER ROW: C. S. Clapp, R. G. Crane, A. Torossian, C. H. Preston, F. J. Robinson, P. W. Norton, P. F. McLoughlin, C. C. Ford, J. R. Tabor, C. Youngerman, W. D. Reed.  
FRONT ROW: J. M. Hatton, E. I. Williams, Prof. H. W. Gardner, Prof. D. Despradelle, Prof. W. H. Lawrence, K. Vonnegut, H. H. Bentley.

## HOLY CROSS WINS IN EXTRA PERIODS.

FIRST BASKETBALL SCORE WAS  
26 TO 18.

Tech Meets Maine Tomorrow in Season's  
Last Game.

Worcester, Feb. 26.—Holy Cross defeated Technology basketball team here tonight by the score of 26 to 18. At the end of the first half Tech was leading but Holy Cross tied before the end of the second half and two extra periods had to be played. Owing to injuries which the visitors received in the first extra period, Holy Cross won out easily in the second.

HOLY CROSS M. I. T.  
O'Connor, Reddy rf.....lg. Parker  
Dowd, rt.....lg. Wentworth  
Stevens, lf.....rg. Nicholls, Parker  
Casey, Callahan, c.....c. Pierce  
Markin, Callahan, rg.....lf. Cahill  
O'Neill lg. rf. Hargraves, Parker, Johnson  
Goals from floor, Stevens 6, O'Connor  
Casey, Parker 5, O'Neill 2, Cahill,  
Nicholls. Goals from fouls, Parker 4,  
Stevens 6. Referee, P. W. Hehir.  
Time, 20m. halves, 10m. extra.

## PRAISES TECH MEN ON JOB.

New York Water Engineer Describes  
1900 WORLDS FAIR WATER SUPPLY IN DETAIL  
The H. S. Wiggin (1883) third designing  
engineer of the New York board of  
water supply, gave an interesting talk  
Wednesday evening, at the Union, be-  
fore 125 members of the Girl Engineers  
Society and others on New York's  
new water supply. After the lecture, in speaking of  
the Tech men on the work, Mr. Wiggin  
mentioned John T. Freeman 1886, com-  
municating engineer to the board and J.  
Valdo Smith 1887, chief engineer, and  
said that Tech was well represented in  
the rest of the men at work.

## THEIR PRACTICE RUN.

The cross-country squad yesterday  
took the following course: From the  
Gym, down Exeter St., to Common-  
wealth Ave., then out to Cottage Farm,  
through St. Mary's St., to Beacon  
Ave., and back to the Gym.

## ARRANGES MEET WITH HARVARD AND YALE.

### FENCING TEAM TO GET TRAINING FOR INTERCOLLEGiate.

Meet With Amherst and Springfield  
Probable.

Technology's fencing team meets Harvard and Yale at the Gym March 14 in the preliminary bouts for the national intercollegiate meet at New York. The teams winning first and second places will compete in the national meet.

Manager Moses is negotiating for a triangular meet with Amherst and Springfield Training School at Springfield, to take place some time in March.

### 1877 HOLDS 21ST REUNION.

#### Dozen Gather at Technology Club.

Just a dozen of the class of 1877 were present Wednesday evening at the twenty-first class reunion at the Tech Club.

Those present were John Alden, chemist; Pacific Mills, Lawrence; Charles A. Clarke, Hill, Clarke & Co., Boston; Edward J. Davis, printer, Boston; W. E. Fairbanks, Gaysville, Mass.; E. T. H. Gowin, Boston; Richard A. Hale, Boston; sex county engineer, Lawrence; Walter Jenney, vice-president, Jenney Mfg. Co., Boston; Charles F. Lowton, superintendent streets and sewers, New Bedford; A. Locke, Waltham; George A. Nelson, assistant city engineer, Lowell; Thomas F. Stimpson, Providence, R. I.; Ward C. Southworth, Stoughton, Mass. The class is now preparing a new class directory and Secretary-Treasurer. Richard A. Hale is collecting the photographs and information.

## PROF. WALKER SPOKE LAST NIGHT.

Professor William H. Walker of the Chemistry Department spoke on "Chemistry in its Relation to Street Railway Work" before the New England Street Railway Club at their regular monthly meeting last night.

## INVESTIGATIONS IN PHYSICO-CHEMISTRY.

### SIXTEEN INVESTIGATORS AT WORK.

Old Problems Cleared Away. New Problems taken up in Physical Chemistry. Serial Publications.

Sixteen men are at present carrying on investigations in the laboratory of physical chemistry, ten of whom are devoting their whole time to research work.

The laboratory is now in its fifth year. The new members of the staff are Professor Carl Von Ende (Ph. D. Göttingen), Mr. John Johnson (B. Sc. St. Andrews) and Mr. Roger D. Gale (S. B. Massachusetts Institute of Technology).

Mr. R. B. Arnold (S. B. Rose Polytechnic) enters as a candidate for the degree of doctor of philosophy.

A considerable part of the research work in the laboratory this year, as in the past, bears upon the problems of conductivity in aqueous solutions at high temperatures.

The results of the numerous investigations in this field, which have been completed in this laboratory, have recently appeared in a comprehensive memoir published by the Carnegie Institution.

A new form of conductivity bomb, capable of withstanding very high pressures, has recently been constructed. In this bomb the vapor pressure, density, and compressibility of water up to the critical point, are being studied, as well as the influence of pressure upon the electrical conductivity of solutions. Closely allied investigations are being made upon electrical transference in mixed salt solutions, the solubility of salts in water at high temperatures, and the dielectric constant of water up to its critical points.

In another field of investigation which is receiving special attention in this laboratory several investigations are underway. These are directed toward the determination of the common electrode potentials and of the free agency of important chemical reactions.

Indirectly, but vitally connected with these researches is an investigation of the specific heat of gases at very high temperatures, which is now being un-

## TWO PRIZES SET ARCHITECTS WORKING.

### FOURTH YEAR MEN AFTER \$50 PRIZES.

Boston Society of Architects are  
the Donors.

Fourth-year men in architecture are now fully occupied with the annual competition for two prizes of \$50. These prizes are given by the Boston Society of Architects in the second term each year, one to a regular student, the other to a special student presenting the best solution of a certain problem.

Prof. Despradelle has this year given the problem of designing a bay-window for a city residence. In his program, Prof. Despradelle says:

"The bay-window applied to a dwelling house is practicable, convenient, home-like, decorative in facade, and consequently worthy to be considered as a very important element in architecture. It has besides the quality of being modern and more American than any other architectural feature."

The problem given is to design a bay-window as the central and principle motif of the facade of a residence of moderate importance, such as is found in Back Bay. The facade is to be 26 feet wide, and the bay window is not to project more than five feet. The house has a ground-story and three stories above, the bay-window to run through all the upper stories.

The competition began on Feb. 12, when the program was given out, and the finished drawings are due on Friday, March 13. Today the final sketches are to be criticized before the entire class, and the next two weeks are to be spent on the final drawing.

For the past two weeks the four-year architects have been working day and evening on their sketches and a large number of interesting designs have been evolved.

The designs are to be judged by a committee from the Society of Architects.

(Continued on page 3.)

## RELIGIOUS LIFE STILL PRESENT.

### Tech's Hard Work Does Not Stamp It Out.

Rev. R. Kidner of Trinity Church spoke to the Y. M. C. A. yesterday on the religious problem at the Institute. Rev. Kidner has been watching the students for some time and told of facts as they are, not as they ought to be.

He said in part, "Religion does not stand so good a chance at the Institute as at a college. The problem here has interested but puzzled the Back Bay pastors. The aspect at present is more favorable than it has ever been. A spark of religious life is still in evidence in spite of the pressure of school work and peculiar conditions."

### SEXTETTE PROVISIONALLY PICKED.

Mrs. Francis is to Rehearse Dancers.  
Principals Try Second Act.

Clever dancing will be a feature of the new Tech Show, "Over the Garden Wall." There will be a sextette of dancing girls like that in last year's production. A provisional selection of these was made Wednesday, the number of candidates being cut down to seven or eight. These men will rehearse Monday before Mrs. Francis, who will make the final selection, and drill the men selected. At the rehearsal Wednesday, the new opening chorus was sung, as well as other songs now in, and the music went with a good deal of snap. Yesterday afternoon the principals, for the first time, tried the second act of the play, and showed the possibilities of the lines in the way of humor. The dialect parts were admirably handled, and although the men had not learned their lines, the effect was, on the whole, very promising.

(Continued on page 2.)

# THE TECH

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Friday, February 28, 1908.

## A GOOD GAME.

Tomorrow evening the Basket Ball Team plays the University of Maine at the Gym. A good crowd should attend this game.

The Basket Ball Team has done good work this year even though it has received little support. In the Dartmouth game the team did well and might have been victorious if there had only been more Tech rooters. All this year the games have not been attended enough to make basket ball self supporting. Consequently the team has been helped out by appropriations from the Advisory Council. If students would financially aid athletics by attending the basket ball games and indoor meets through the winter, minor athletics would be made self-supporting and so the Advisory Council would have more money to be applied to the stimulation of general athletics.

A big crowd ought to turn out for the game Saturday. Not only will it be a good game but the team needs the help of everyone.

## CIRCULATE.

The students who regards all studying as a bore, who looks upon instructors as taskmakers, who feels that any old way is good enough, hardly has the right to regard the student interested in his work as an alien. On the other hand the hard working student should not look upon as frivolous and worthless his fellow student who revels in beer-nights, theatres and society meetings. There should be no suspicion existent between the commuting day-student, the sport of Back Bay, the earnest student and the student who doesn't care.

There should be more of the feeling that each man can give to the other, that a closer communion is not only beneficial to the individual but to the Technology community.

As the New York Sun repeats from time to time, a man can educate himself by two primary actions. These are "Read" and "Circulate." Many Institute men do nothing but read, read facts, formulas, and diagrams. Others do nothing but circulate. Many of these have departed. Let the readers circulate and the circulators put on brakes.

That the big men of your class may be found in the supposed outcast horde, the "grinds," and that it would be best to cultivate the acquaintance of a few of these very human individuals is shown in the following quotation from Owen Wister now famous talk on American scholarship:

"When I was in college I obeyed the instinct to flock with my feather. Forgive me if I say with regret, that those birds we used to call "grinds" had no attraction for me; doubtless I was despised by them. It was all a mistake, a natural mistake to be sure, but one to beware of. When I look back now, I am sorry that fate or intention did not bring me more in contact with a certain "grind" in my class whose name was George Lyman Kittredge. We must flock together if we would get the best results."

While there is a tendency at the Institute for all to be "grinds," there are a number of men who, because of greater means or advantages, are able to enter into a better social life than the day-student living in outlying districts or the average scholarship man. These should attempt to carry to their less fortunate class mates something of their social life.

On the other hand the great number of men at the Institute who have been driven to believe in the infallibility of books should stop a moment to consider that the great problems in after life will be human problems, that

the greatest men not only know facts but also men.

As Wister says "We must flock together more if we would get the best results" for the individual and for the community.

## INVESTIGATIONS IN PHYSICO-CHEMISTRY.

(Continued from page 1.)

dertaken by Professor H. M. Goodwin and Dr. H. T. Kalmus.

The general scheme of qualitative analysis developed by Professor A. A. Noyes and Dr. W. C. Bray is being extended to include the detection of the acids.

Other investigations begun in previous years on the hydration and the true transference numbers of the ions, on the electromotive force produced in a solution by rotating it at a very high speed, and on properties of metals in liquid ammonia, are being brought to a successful conclusion.

Mr. C. A. Kraus, who is carrying on the last named investigation, has succeeded in finding the missing link between the metallic and the electrolytic conductor, and he has thus obtained a new point of attack for the problem of the electron.

During the past year a gift of \$500 has been received from the William E. Hale Research Fund, and one of \$3000 from a private source in support of the work of the laboratory.

In addition, Professor A. A. Noyes has received a grant of \$2000 from the Carnegie Institution for assistance in carrying on the researches on the conductivity of aqueous solutions.

## TURBINES DISCUSSED.

Mr. Charles B. Burleigh of the General Electric Company spoke on the steam turbine before the regular meeting of the Society of Arts last night. His talk included a brief historical sketch of the development of the turbine, an explanation of its action and descriptions of numerous installations. The subject was well illustrated by lantern slides.

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## TWO PRIZES SET.

(Continued from page 1.)  
tects assisted by a number of professors from the Department of Architecture. The judges from the society are J. R. Coolidge, Jr., W. C. Appleton, C. N. Cogswell, Allen W. Jackson, Calvin Kiessling, J. L. Little, Jr., William S. Parker, E. Putnam, Jr., and George C. Shattuck.

The men in the competition are: (regular students) Ralph J. Batchelder of North Cambridge; Harry H. Bentley of Okaloosa, Iowa; Chalmers S. Clapp of Dorchester; Russell G. Crane of Taunton; W. Fred Dolke of St. Louis, Mo.; Howard S. Hazen, Jr., of La Salle, Ill.; Rinker Kibbey of Marshfield Hills; Hugo F. Kuehne of Austin, Texas; Paul W. Norton of Woburn; Frank J. Robinson of Boston; Frederic B. Schmidt of Westfield; Aram Torossian of Norwich, Conn.; Edgar I. Williams of Rutherford, N. J.; and Conrad Youngerman of Des Moines, Iowa; (special students) Chester A. Brown of Swampscott; Stiles O. Clements of Dover, Del.; H. D. Chandler, Boston; Alexander M. Emerson of Hyde Park; Chester Cook Ford of South Boston; John M. Hatton of Des Moines, Iowa; Joseph McGinnis of Dorchester; Peter F. Laughlin of Pittsfield; Maurice P. Meade of Brookline; Thomas Owings of Baltimore, Md.; Clifford H. Preston of Farmington, Me.; Edwin M. Price of Brookline; Walter D. Reed of Oakland, Cal.; John R. Tabor of Houston, Texas; John R. Thordike of Boston; Kurt Vonnegut of Indianapolis, Ind.

By constant study and development on the part of the authorities in the course in architecture the high position which the Institute course holds has been greatly strengthened. One of the greatest aids in the placing of the work of students before the architects and public and in keeping in touch with the department it graduates has been the Technology Architectural Record started last year.

This quarterly is published under the auspices of the Architectural Society with the aid of the professors in the course. It contains in each number cuts of the prize drawings, or thesis drawings by the students, news of the architectural graduates, translations from various foreign works on architecture and news of the architectural world. It is of so high a standard that it is being used by the Institute as

a prospectus of the work done in the course in architecture.

The officers of the society are: president, E. I. Williams 1908; vice-president, Kurt Vonnegut 1908; secretary, H. H. Bentley 1908; treasurer, H. D. Chandler 1908. The publication committee that is intimately connected with the publication is made up of W. F. Dolke, Jr. 1908 chairman; F. B. Schmidt 1908, L. H. King 1909. Prof. Harry W. Gardner takes especial interest in the publication.

Another part of the work in increasing the scope of the department has been the participation of the authorities of the course in the various conventions of the American Institute of Architects. This society at its fortieth convention at Washington in January gave active evidence of its interest in the architectural schools through its committee on architectural education.

As expressed in the committee's report: "Through co-ordination, a unification of standards, and co-operation, we believe that in a few years the education offered in this country might be looked upon as final except for the absolutely necessary element of study and cultivation through travel and research amongst the imitable monuments of the pagan and Christian past."

The result of the acceptance of this report was a meeting held by the committee in New York in May following, to which were invited the heads of the architectural schools of Columbia, Cornell, Pennsylvania and the Institute. They all responded.

The most tangible results of that meeting was to inaugurate a system of competitions between the schools, and the experiment was made to hold the first one during the summer vacation. The difficulty of control of vacation work has proved, however, that it is not practicable to carry out this plan, and at another meeting last month it was decided to have the competitions a part of the school curriculum. Preparations are now being made to accomplish this.

## DEAN BURTON WAS SPEAKER.

Dean Burton was the speaker at a recent meeting of the Bowdoin College Christian Association. His address was on the subject of "Honor in College," and was one in a series on the problems of the college man.

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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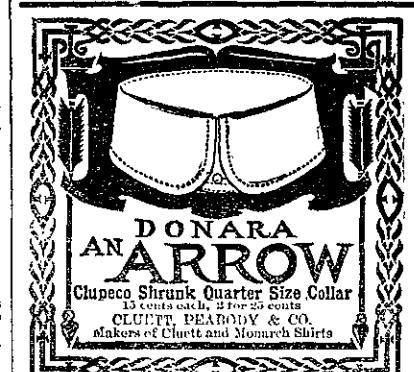


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**CALENDAR.**

Friday, Feb. 28.  
4.00 P.M. Banjo Club Rehearsal 33 Rogers.  
4.15 P.M. Mandolin Club Rehearsal in 31 Rogers.  
4.00 P.M. Tech Show Chorus Rehearsal at the Union.  
7.00 P.M. Musical Clubs Meet at Trinity Place Station.

Saturday, Feb. 29.  
2.00 P.M. Tech Show Principals Rehearsals at the Union.  
3.00 P.M. Short Outdoor Run from the Gym.  
8.00 P.M. Basket Ball vs. Maine at the Gym.

Monday, March 2.  
1.00 P.M. Institute Committee Meets in the Trophy Room.  
4.00 P.M. Tech Show Chorus Rehearsals at the Union.  
4.15 P.M. Banjo Club Rehearsal in 33 Rogers.  
4.15 P.M. Mandolin Club Rehearsal in 31 Rogers.  
4.15 P.M. Glee Club Rehearsal in the Y. M. C. A. Auditorium.  
8.00 P.M. Mining Engineers Meet in Room 2, Rogers.

#### FACULTY NOTICE.

TOPOGRAPHIC GEOLOGY.—The class will meet in 11 Eng. B at 11 A.M. on Tuesdays throughout the term.

#### NOTICES.

INSTITUTE COMMITTEE.—Meeting at 1.00 P.M. on Monday in the Trophy Room.

MUSICAL CLUBS.—Concert at Unitarian Church, West Newton, Friday evening. Meet at Trinity Place Station at 7.00.

MINING ENGINEERS.—The Mining Engineering Society will meet Monday evening at 8 o'clock in Rogers. Prof. Bugbee will talk on cyanides. All second-year students in Course III are invited to be present.

**CLASSIFIED ADS.**  
Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

Will the one who absent mindedly picked up "A Course in Mathematics" at the Union last Friday, please return the same to the Office and bring it to Prof. Robinson. I need it more now.

SECOND-TERM TEXT-BOOKS.—A few second-hand books needed in the second term can be had by applying at Box 52, Cage Book Exchange.

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